

Amendment under PCT Article 34

\* Substitute pages 7-10 and a set of amended claims

<For your information>

Amended claims are made by combining original claims.

Original claim 13 is cancelled.

The relationship between original claims and amended claims is shown below.

| (Amended claim no.) | (Original claim no.) |
|---------------------|----------------------|
| 1                   | 1+3+12               |
| 2                   | 2                    |
| 3                   | 6                    |
| 4                   | 7                    |
| 5                   | 1+4                  |
| 6                   | 1+5                  |
| 7                   | 8+9                  |
| 8                   | 10                   |
| 9                   | 11                   |

structure in which a rise in temperature is reduced, whereby the performance can be enhanced easily.

A 1st invention of the present invention (corresponding to claim 1) is a transducer-supporting structure, characterized in that said structure at least comprises:

a transducer for recording and reproducing information on and from a medium;

a transducer mounting section which is mounted with said transducer and comes into contact with said medium by means of mechanical action or keeps a fixed distance from said medium;

a suspension which supports said transducer mounting section and elastically positions said transducer in the direction such as to bring and separate said transducer close to and from said medium; and

a thermal coupling member formed of a part of said suspension for thermally coupling said transducer with said suspension in direct contact with said transducer, and

at least a part of heat generated in said transducer is dissipated through said suspension.

A 2nd invention of the present invention (corresponding to claim 2) is the transducer-supporting structure according to the first invention, characterized

in that said thermal coupling member has an elastic restoring force, and is in contact with said transducer.

A 3rd invention of the present invention (corresponding to claim 3) is the transducer-supporting structure according to the 1st invention, characterized in that said transducer is an electromagnetic transducer.

A 4th invention of the present invention (corresponding to claim 4) is the transducer-supporting structure according to the 1st invention, characterized in that said transducer is an electro-optical transducer.

A 5th invention of the present invention (corresponding to claim 5) is a transducer-supporting structure, characterized in that said structure at least comprises:

- a transducer for recording and reproducing information on and from a medium;

- a transducer mounting section which is mounted with said transducer and comes into contact with said medium by means of mechanical action or keeps a fixed distance from said medium;

- a suspension which supports said transducer mounting section and elastically positions said transducer in the direction such as to bring and separate said transducer close to and from said medium; and

a thermal coupling member for thermally coupling said transducer with said suspension, and

said thermal coupling member and said transducer or said thermal coupling member and said suspension are at least partially coupled thermally with each other via a viscous fluid; and

at least a part of heat generated in said transducer is dissipated through said suspension.

A 6th invention of the present invention (corresponding to claim 6) is a transducer-supporting structure, characterized in that said structure at least comprises:

a transducer for recording and reproducing information on and from a medium;

a transducer mounting section which is mounted with said transducer and comes into contact with said medium by means of mechanical action or keeps a fixed distance from said medium;

a suspension which supports said transducer mounting section and elastically positions said transducer in the direction such as to bring and separate said transducer close to and from said medium; and

a thermal coupling member for thermally coupling said transducer with said suspension, and

said thermal coupling member is a gel-form substance, and said transducer and said suspension are coupled thermally with each other via said gel-form substance; and

at least a part of heat generated in said transducer is dissipated through said suspension.

A 7th invention of the present invention (corresponding to claim 7) is a transducer-supporting structure, characterized by at least comprising:

a transducer for recording and reproducing information on and from a medium;

heat dissipating means is formed integrally with said transducer; and

a suspension for holding said transducer at a desired position with respect to said recording medium.

An 8th invention of the present invention (corresponding to claim 8) is the transducer-supporting structure according to the 7th invention, characterized in that said transducer is an electromagnetic transducer.

A 9th invention of the present invention (corresponding to claim 9) is the transducer-supporting structure according to the 7th invention, characterized in that said transducer is an electro-optical transducer.